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Model-based head pose tracking with stereovision

Ruigang Yang Zhengyou Zhang

North Carolina Univ., Chapel Hill, NC, USA;

This paper appears in: [Automatic Face and Gesture Recognition, 2002. Proceedings. International Conference on](#)

Publication Date: 20-21 May 2002

On page(s): 242 - 247

Number of Pages: xi+436

Meeting Date: 05/20/2002 - 05/21/2002

Location: Washington, DC

INSPEC Accession Number: 7336364

Digital Object Identifier: 10.1109/AFGR.2002.1004163

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Abstract

We present a robust model-based stereo head tracking algorithm that operates in real time on a PC. The use of an individualized three-dimensional head model, coupled with the epipolar stereo image pair greatly improves the robustness of the tracking. Experimental results have shown that the method is able to track all the six degrees of freedom of the rigid part of head motions, over a long period of time, in the presence of large angular and translational head motions, partial occlusions, and dramatic facial expression changes. Applications include human-computer interaction and videoconferencing.

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Author Keywords

Not Available

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No references available on IEEE Xplore.

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tures using learned robust **features**. **Face** imageries are de- ... in figure 6 c) where the **inner** circle indicates the average errors and the **outer** circle the ...

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L16 same (match\$3 or resembl\$5 or similar\$5)	15

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<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
	<i>DB=PGPB,USPT; PLUR=YES; OP=ADJ</i>		
<u>L1</u>	(match\$3 near10 (facial or face\$1)) same (inner or nose or mouthe or eyes) same (template or model or exemplar or known) same epipolar	1	<u>L1</u>
<u>L2</u>	(face or facial) same match\$3 same (template or model) same epipolar	16	<u>L2</u>
<u>L3</u>	L2 and (nose or mouth or eyes)	16	<u>L3</u>
<u>L4</u>	L3 and ((contour or edge) near5 face)	4	<u>L4</u>
<u>L5</u>	L4 and eyebrows	1	<u>L5</u>
	<i>DB=PGPB; PLUR=YES; OP=ADJ</i>		
<u>L6</u>	20020102010.pn.	1	<u>L6</u>
<u>L7</u>	(face or facial) same match\$3 same outer same inner	659	<u>L7</u>
<u>L8</u>	L7 same (model or template)	4	<u>L8</u>
<u>L9</u>	L8 same (align\$5 or adjust\$6)	1	<u>L9</u>
<u>L10</u>	constrain\$5 same (facial or face) same match\$3 same (align\$5 or adjust\$6)	27	<u>L10</u>
<u>L11</u>	L10 same model	2	<u>L11</u>

DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ

<u>L12</u>	(recogn\$6 or identif\$6 or model\$3) same (face or facial) same epipolar	23	<u>L12</u>
<u>L13</u>	L12 same (adjust\$5 or align\$6 or correct\$5)	17	<u>L13</u>
<u>L14</u>	L13 same (point or eye or moutn or eye)	2	<u>L14</u>
<u>L15</u>	L13 same (point or eye or mouth or eye)	2	<u>L15</u>
<u>L16</u>	L13 same model	15	<u>L16</u>
<u>L17</u>	L16 same (match\$3 or resembl\$5 or similar\$5)	15	<u>L17</u>

END OF SEARCH HISTORY

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L25 and epipolar	0

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<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
	<i>DB=USPT; PLUR=YES; OP=ADJ</i>		
<u>L1</u>	(match\$3 or similar\$5) same ((right or left or second) near3 image) same (model or template)	511	<u>L1</u>
<u>L2</u>	L1 same constrain\$3	14	<u>L2</u>
<u>L3</u>	L1 same (adjust\$6 or align\$6)	92	<u>L3</u>
<u>L4</u>	L3 same (face\$1 or facial)	5	<u>L4</u>
<u>L5</u>	L1 same (face or facial)	41	<u>L5</u>
<u>L6</u>	L5 same (point or feature or eye or mouth or nose)	27	<u>L6</u>
<u>L7</u>	L6 and epipolar	5	<u>L7</u>
<u>L8</u>	(adjust\$5 or align\$6 or correct\$5 or modif\$8) with match\$4 with epipolar	12	<u>L8</u>
<u>L9</u>	l1 and l8L8	0	<u>L9</u>
<u>L10</u>	match\$4 near10 (facial near2 feature)	128	<u>L10</u>
<u>L11</u>	L10 same ((reference or model or template or known) near5 face)	25	<u>L11</u>
<u>L12</u>	l11 and epipolar	9	<u>L12</u>

<u>L13</u>	L1 same ((geometric\$2 or epipolar) near3 constrain\$3)2	0	<u>L13</u>
<u>L14</u>	L1 and ((geometric\$2 or epipolar) near3 constrain\$3)	18	<u>L14</u>
<u>L15</u>	match\$3 near5 facial near3 feature	73	<u>L15</u>
<u>L16</u>	L15 same (face near6 (template or reference or model))	21	<u>L16</u>
<u>L17</u>	L16 and ((geometric or epipolar) near3 constrain\$2)	9	<u>L17</u>
<u>L18</u>	match\$4 same (extract\$4 near5 facial near5 feature) same (template or model)	12	<u>L18</u>
<u>L19</u>	L18 and epipolar	0	<u>L19</u>
<u>L20</u>	l1 same (adjust\$6 or align\$6 or normaliz\$6)	114	<u>L20</u>
<u>L21</u>	L20 same constrain\$4	4	<u>L21</u>
<u>L22</u>	(face near2 recogn\$6)	1507	<u>L22</u>
<u>L23</u>	L22 and (epipolar near2 constrain\$3)	11	<u>L23</u>
<u>L24</u>	((first or left or right) near3 image) same ((second or left or right) near3 image) same (reference or modl or template) same (facial or face)	247	<u>L24</u>
<u>L25</u>	L24 same (correlat\$4 or match\$4)	26	<u>L25</u>
<u>L26</u>	L25 and epipolar	0	<u>L26</u>

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	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
1	IS&R	L1	7254	(382/118,151,154,159,190,195,199,209,218,294,309).CCLS	US-PGPUB; USPAT	2006/10/26 11:29	
2	IS&R	L2	2602	(345/419).CCLS.	US-PGPUB; USPAT	2006/10/26 11:15	
3	BRS	L3	2627	((facial or face\$1) near5 (model\$1 or template\$1 or exemplar\$1 or known)) same (match\$3 or correlat\$4 or similar\$5)	US-PGPUB; USPAT	2006/10/26 11:16	
4	BRS	L4	212	3 same ((two or pair\$1 or second or first or right or left) near4 image\$1)	US-PGPUB; USPAT	2006/10/26 11:17	
5	BRS	L5	112	4 same (feature\$1 or points or eye\$1 or nose or eye\$1 or ear\$1 or cheek\$1 or chin)	US-PGPUB; USPAT	2006/10/26 11:18	
6	BRS	L6	5	5 same (inner or inside or outer or outside)	US-PGPUB; USPAT	2006/10/26 11:20	
7	BRS	L7	18	5 same (adjust\$5 or align\$5 or correct\$5 or modif\$7)	US-PGPUB; USPAT	2006/10/26 11:47	
8	BRS	L8	2	7 same (geometric\$2 or epipol\$3)	US-PGPUB; USPAT	2006/10/26 11:25	
9	BRS	L9	2	8 and epipolar	US-PGPUB; USPAT	2006/10/26 11:28	

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
10	IS&R	L10	353	(382/118).CCLS.	USPAT	2006/10/26 11:29	
11	IS&R	L12	651	(382/118).CCLS.	US- PGPUB; USPAT	2006/10/26 11:29	
12	BRS	L13	51	5 and 12	US- PGPUB; USPAT	2006/10/26 11:47	
13	BRS	L14	23	13 and epipolar	US- PGPUB; USPAT	2006/10/26 11:47	
14	BRS	L15	8863	((face\$1 or facial) same ((match\$4 or similar\$5 or correlat\$4) near10 (adjust\$5 or align\$5 or correct\$5 or modif\$7))	US- PGPUB; USPAT	2006/10/26 11:48	
15	BRS	L16	57	15 same (face\$1 near3 (template\$1 or model\$1))	US- PGPUB; USPAT	2006/10/26 11:49	
16	BRS	L17	12	16 same ((facial near3 feature\$1) or eye\$1 or mouth or eye\$1 or ear\$1 or chin or cheek\$1)	US- PGPUB; USPAT	2006/10/26 11:53	
17	BRS	L18	1	match\$3 near10 (face\$1 or facial) near10 epipolar	US- PGPUB; USPAT	2006/10/26 11:54	
18	BRS	L19	13	match\$3 same (face\$1 or facial) same (model\$1 or template\$1) same epipolar same (adjust\$5 or align\$5 or correct\$5)	US- PGPUB; USPAT	2006/10/26 11:55	